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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,869	12/14/2005	David Nurok	29920-79201 3698	
Barnes & Thorr	7590 11/13/200 nburg	EXAMINER		
11 South Merid	ian Street	ZALASKY, KATHERINE M		
Indianapolis, IN 46204			ART UNIT	PAPER NUMBER
			4153	
			MAIL DATE	DELIVERY MODE
			11/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Applicat	ion No.	Applicant(s)	
		369	NUROK ET AL.	
Office Action Summary	Examine	·r	Art Unit	
		RINE ZALASKY	4153	
The MAILING DATE of this commun	nication appears on th	e cover sheet with the o	correspondence addre	?ss
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provision: after SIX (6) MONTHS from the mailing date of this com - If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF T s of 37 CFR 1.136(a). In no e munication. tatutory period will apply and v y will, by statute, cause the ap	'HIS COMMUNICATIOI vent, however, may a reply be tinwill expire SIX (6) MONTHS from plication to become ABANDONE	N. mely filed I the mailing date of this comn ED (35 U.S.C. § 133).	
Status				
 Responsive to communication(s) file This action is FINAL. Since this application is in condition closed in accordance with the pract 	2b) This action is for allowance excep	 non-final. It for formal matters, pro		erits is
Disposition of Claims				
4) ☐ Claim(s) 1-47 is/are pending in the 4a) Of the above claim(s) 10-33 and 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 and 34 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restri	/ <u>35-47</u> is/are withdra			
Application Papers				
9)☑ The specification is objected to by the specification is objected to by the specific spe	e <u>r 2005</u> is/are: a)⊠ a ection to the drawing(s) g the correction is requi	be held in abeyance. Se ired if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR	1.121(d).
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation * See the attached detailed Office action	documents have been documents have been of the priority documental Bureau (PCT Ru	en received. en received in Applicat nents have been receiv ule 17.2(a)).	ion No ed in this National Sta	age
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (in the content of the content o	PTO-948)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I, claims 1-9 and 34, in the reply filed on 20 October 2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been

treated as an election without traverse (MPEP § 818.03(a)).

2. Claims 10-33 and 35-47 are withdrawn from further consideration pursuant to 37

CFR 1.142(b) as being drawn to nonelected Inventions II-V, there being no allowable

generic or linking claim.

Specification

3. The use of the trademark "Delrin" (pg 7, ln 3) has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

4. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the "metal die block" of **claim 3** is not disclosed in the specification.

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Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. **Claim 3** is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding **claim 3**, the recitation of the claim limitation "wherein the urging step comprises urging a metal die block" renders the claim indefinite because it is unclear whether this claim is adding the limitation of "metal" to the die block of **claim 1** or whether the claim is requiring a second, metal die block in the method of **claim 1**.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-9 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Nurok et al. (US 6,303,029).

Regarding **claim 1**, Nurok et al. discloses a method of performing electrochromatography (abstract), the method comprising the steps of:

urging a die block toward a stationary phase supported on a sample plate
 (C13/L12-39, die block 94, stationary phase 16, sample plate 12)

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 so as to exert a pressure which is greater than atmospheric pressure against the stationary phase (C13/L12-39)

 creating an electrical potential across the stationary phase with a first electrode and a second electrode so as to cause a liquid mobile phase to be advanced across the stationary phase (C11/L24-28)

Regarding **claims 2-9 and 34**, Nurok et al. discloses all of the claim limitations as set forth above. Additionally, the reference discloses the method:

- further comprising the step of placing the stationary phase in contact with the liquid mobile phase prior to the creating step (C12/L62-C13/L3)
- wherein the urging step comprises urging a metal die block toward the stationary phase supported on the sample plate (C13/L12-39, C11/L64 -C12/L15, membrane may comprise an aluminum nitride material)
- further comprising the step of positioning the sample plate in a plate holder prior to the urging step (Figure 5, plate held between die blocks 92, 94, and held in place by fasteners 108 and nuts 110)
- wherein the urging step comprises urging the die block with a fluid ram (C13/L12-39, membrane of die block acts as the ram, pushing against the sample plate)
- wherein the urging step comprises urging the die block with a hydraulic ram (C13/L12-39, membrane of die block acts as the ram, pushing against the sample plate)

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 further comprising the step of positioning a cover slip over the sample plate prior to the urging step (C11/64-C12/L15, Teflon sheet)

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- wherein the urging step comprises urging the die block into contact with the sample plate (C13/L12-39)
- wherein the stationary phase is supported on a first side of the sample plate, and the urging step comprises urging the die block into the first side of the sample plate (Fig 4-7, C13/L12-39)
- further comprising the step of advancing a fluid through a number of fluid channels defined in the die block (C13/L12-39, baffles 124)
- 9. Claims 1-2, 5-6, 8 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Mincsovics et al. (WO 01/50123).

Regarding **claim 1**, Mincsovics et al. discloses a method of performing electrochromatography (abstract, [0071]-[0072], the method comprising the steps of:

- urging a die block toward a stationary phase supported on a sample plate
 (Figure 2, [0047], die block 8, stationary phase 2, sample plate 3)
- so as to exert a pressure which is greater than atmospheric pressure against the stationary phase ([0047], Figure 2)
- creating an electrical potential across the stationary phase with a first electrode and a second electrode so as to cause a liquid mobile phase to be advanced across the stationary phase ([0071]-[0072])

Regarding **claims 2, 5-6, 8 and 9**, Mincsovics et al. discloses all of the claim limitations as set forth above. Additionally, the reference discloses the method:

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 further comprising the step of placing the stationary phase in contact with the liquid mobile phase prior to the creating step ([0038])

- wherein the urging step comprises urging the die block with a fluid ram ([0044]-[0047])
- wherein the urging step comprises urging the die block with a hydraulic ram ([0044]-[0047])
- wherein the urging step comprises urging the die block into contact with the sample plate ([0044]-[0047])
- wherein the stationary phase is supported on a first side of the sample plate, and the urging step comprises urging the die block into the first side of the sample plate([0044]-[0047])
- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-9 and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Nurok et al. (US 7,279,105).

The applied reference has a common Inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome

either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding **claim 1**, Nurok et al. discloses a method of performing electrochromatography (abstract), the method comprising the steps of:

- urging a die block toward a stationary phase supported on a sample plate
 (C13/L27-54, die block 94, stationary phase 16, sample plate 12)
- so as to exert a pressure which is greater than atmospheric pressure against the stationary phase (C13/L27-54)
- creating an electrical potential across the stationary phase with a first electrode and a second electrode so as to cause a liquid mobile phase to be advanced across the stationary phase (C11/L39-43)

Regarding **claims 2-9 and 34**, Nurok et al. discloses all of the claim limitations as set forth above. Additionally, the reference discloses the method:

- further comprising the step of placing the stationary phase in contact with the liquid mobile phase prior to the creating step (C13/L10-18)
- wherein the urging step comprises urging a metal die block toward the stationary phase supported on the sample plate (C13/L27-54, C12/L5-30, membrane may comprise an aluminum nitride material)
- further comprising the step of positioning the sample plate in a plate holder prior to the urging step (Figure 5, plate held between die blocks 92, 94, and held in place by fasteners 108 and nuts 110)

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 wherein the urging step comprises urging the die block with a fluid ram (C13/L27-54, membrane of die block acts as the ram, pushing against the sample plate)

- wherein the urging step comprises urging the die block with a hydraulic ram (C13/L27-54, membrane of die block acts as the ram, pushing against the sample plate)
- further comprising the step of positioning a cover slip over the sample plate prior to the urging step (C12/L5-30, Teflon sheet)
- wherein the urging step comprises urging the die block into contact with the sample plate (C13/L27-54)
- wherein the stationary phase is supported on a first side of the sample plate, and the urging step comprises urging the die block into the first side of the sample plate (Fig 4-7, C13/L27-54)
- further comprising the step of advancing a fluid through a number of fluid channels defined in the die block (C13/L27-54, baffles 124)

Double Patenting

10. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422

F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

11. <u>Claims 1-2 and 5-6 are rejected on the ground of nonstatutory obviousness-type</u> double patenting as being unpatentable over claims 1, 8 and 10-12 of U.S. Patent No. 7,279,105 in view of Hatch et al. (US 6,001,260).

Claims 1, 8, and 10-12 of US Patent No. 7,279,105 recite all of the limitations as recited in claims 1-2 and 5-6 of the instant application, but they do not explicitly recited the use of die blocks to exert pressure on the stationary phase.

Hatch et al. discloses the use of a hydraulic ram (22) with die blocks (support members, 18, 14) to compress the stationary phase of a column for liquid chromatography. Additionally, Hatch et al. teaches that this hydraulic ram may be easily adapted to fit a wide range of stationary phase diameters (C10/L47-61).

It would have been obvious to one having ordinary skill in the art at the time of the invention to use die blocks and a hydraulic ram to exert pressure on the stationary phase recited in **claims 1**, **8**, **and 10-12** of US Patent No. 7,279,105., as taught by Hatch et al., since doing so provides an easily adaptable compression element.

Therefore, **claims 1-2 and 5-6** of the instant application are directed to an invention not patentably distinct from **claims 1, 8, and 10-12** of US Patent No. 7,279,105, as set forth above.

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Conclusion

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to KATHERINE ZALASKY whose telephone number is

(571)270-7064. The examiner can normally be reached on Monday-Thursday, 7:30am -

6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Basia Ridley can be reached on (571) 272-1453. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KZ/

4 November 2008

/Basia Ridley/

Supervisory Patent Examiner, Art Unit 4153